

## STOPAQ® PASTE SZ

### Product Information

**Product description:** Stopaq® Paste SZ is a corrosion preventing mouldable paste, adhering extremely well to wet surfaces such as immersed bare - or coated - steel. It is a non-crosslinked, non-crystalline, monolithic viscous polymer based compound with cold flow, self-healing, visco-elastic properties. Stopaq® Paste SZ is viscous at the indicated operating temperatures and, due to its liquid nature, flows into all irregularities of the substrate. The compound does not cure and is unable to build up internal stress.

Stopaq® Paste SZ is applied as part of the Stopaq® Splash Zone Coating System for filling small voids and negative angled structures. It is used in combination with Stopaq® Wrappingband SZ and requires additional mechanical protective layers like Stopaq® Subsea Intermediate Wrap and Stopaq® Outerglass Shield. This improves impact and indentation resistance of the coating system and ensures adequate performance of the corrosion preventing properties.

#### Features:

- Controlled cold flow providing permanent inflow into the finest pores of the substrate
- Resistance to low temperatures without getting brittle
- Low surface tension; adheres on many types of wet substrates at a molecular level
- Surface tolerant: no blasting techniques required, wire brushing is sufficient (ISO 8501-1: St 2)
- Adhesion based on vanderWaals forces

#### Benefits:

- Environmentally friendly, no health and safety hazards to humans
- Fast and easy to apply
- Easy to control application
- Can be moulded onto various types of irregular shaped objects

### Application examples

**Offshore and submerged structures:** For filling of small voids and negative angled structures of steel jetty-piles situated in the splash zone.

**Immersed pipeline fittings:** For filling of small voids and negative angled structures of immersed carbon steel pipeline structures.

### Product properties of Stopaq® Paste SZ

<b>Colour</b>	Dark green
<b>Density</b>	1.4 – 1.5 g/cm <sup>3</sup>
<b>Temperature ranges</b>	Operational: -20 to +50°C Substrate during application: +5 to +40°C (immersed)
<b>Water absorption</b>	ASTM D570 at +23°C after 72 hours: <ul style="list-style-type: none"> <li>▪ Demineralised water: ≥ 1000 g/m<sup>2</sup></li> <li>▪ 3% NaCl solution: ≥ 250 g/m<sup>2</sup></li> </ul>
<b>Adhesion test</b>	Tested on steel (dry, wetted with fresh water, and wetted with 3% NaCl), St 2 / St 3 prepared surface @ +23°C and @ +50°C*): <ul style="list-style-type: none"> <li>- Cohesive failure</li> <li>- ≥ 95% coverage of surface</li> </ul>

\*) According to ISO 21809-3:2008/Amendment 1:2011

### General order information

<b>Product</b>	Stopaq® Paste SZ is available in sheets, packed in cardboard boxes:
<b>Art. Nr.:</b> 4400	<b>Product dimensions and contents:</b> 2 kg/sheet; 6 sheets/box; 288 sheets/pallet (48 boxes)
<b>Handling</b>	Handle with care. Keep boxes upright.
<b>Storage</b>	Store indoor, clean and dry, away from direct sunlight in a cool place below +45°C. Unlimited shelf life.

Application instruction - Job preparation	
<b>General</b>	Underwater application of Stopaq® Paste SZ and additional Stopaq® materials should only be carried out by professional divers certified for application of Stopaq® products.
<b>Tools, equipment and auxiliaries</b>	<ul style="list-style-type: none"> <li>- Surface preparation tools: Water jetting equipment – e.g. Cavidyne® Caviblaster – and power tooled wire brushes - preferably Monti® Subsea Bristle Blaster.</li> <li>- Scissors, Knife, Measuring tape</li> <li>- Personal protective and diving gear</li> </ul>
<b>Additional coating materials</b>	<p>Additional materials are required as described in the specific coating instruction. For example, the following Stopaq® materials are needed for completing the installation of the Stopaq® Splash Zone Coating System:</p> <ul style="list-style-type: none"> <li>- Stopaq® Wrappingband SZ</li> <li>- Stopaq® Subsea Intermediate Wrap</li> <li>- Stopaq® Outerglass Shield (various types available)</li> <li>- Stopaq® Compression Foil</li> </ul> <p>Depending on the type of application, the use of other materials different from those listed above may be required.</p>
<b>Working conditions</b>	The water temperature during application should be > +5°C

Application instruction - Surface preparation	
<b>Substrate conditions</b>	All substrates must be free from marine growth. Loose rust, loose remainders of old coating, oil, grease and other adhering matter need to be removed. Water jetting equipment may be used to obtain a sufficient clean substrate.
<b>Start and end sections of application area</b>	Start and end section of the area to be coated should be cleaned to bare steel, preferably cleaned with Monti® Subsea Bristle Blaster tool. Roughness profile is not essential for adhesion. Other areas of steel substrate should at least be prepared according to St 2 (ISO 8501-1).

Application instruction - Brief version	
<b>General</b>	See specific Stopaq® coating instructions for further details, e.g. for Stopaq® Splash Zone Coating System
<b>Application</b>	Apply Stopaq® Paste SZ by moulding it to the substrate and make sure to minimize air- or water entrapment underneath the Paste SZ.

Application instruction – Next steps	
<b>Visual inspection</b>	The applied Stopaq® Paste SZ must look smooth and should cover all details with a layer of Stopaq® Paste SZ of at least 10 mm thickness.
<b>Exposure to loads</b>	Objects coated with Stopaq® Paste SZ should not be exposed to loads e.g. from supports- or lifting equipment.
<b>Mechanical protection</b>	Stopaq® Paste SZ must be protected against impacts, indentations, water pressure and other influences within the shortest period of time possible after finishing application. This is obtained by subsequent application of additional coating materials as per the specific application instruction, e.g. Stopaq® Wrappingband SZ, Stopaq® Subsea Intermediate Wrap and Stopaq® Outerglass Shield. See specific application instructions.

Information	
<b>Documentation</b>	Extensive information is available on our website. Application instructions and other documentation can be obtained by contacting our head office, from our local distributor or by sending email to <a href="mailto:info@stopaq.com">info@stopaq.com</a>
<b>Certified staff</b>	Application of the described coating system should be carried out by certified personnel.



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